

**REMARKS/ARGUMENTS**

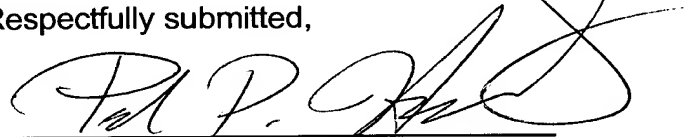
Applicants appreciate the allowance of the application. FIGs. 11 and 12 (also FIG. 13) which were objected to by the Examiner, have been updated (as well as the sheet having FIG. 61), marked-up drawings and a set of replacement drawings sheets are enclosed with this response. The text associated with Figures 11 and 12 has been moved from the drawings into the specification; no new matter has been added. As amended, FIG. 11 and 12 are believed to be in condition to overcome the noted objection.

The objection to the Brief Description of Drawings section due to missing drawing descriptions has been addressed; it is believed that the noted objection has been overcome.

The title has been amended per the Examiner's constructive comments. As amended, the title is believed to be in condition for allowance.

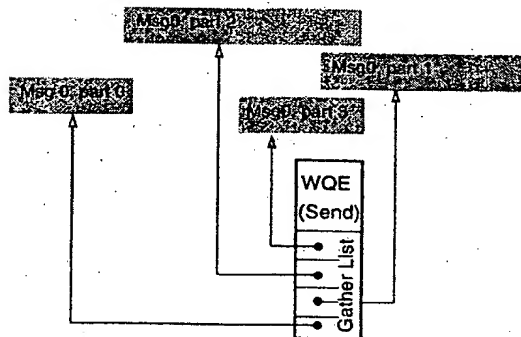
Applicants respectfully request reconsideration and that a timely Notice of Allowance be issued in this case. It is believed that no extensions of time or fees are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required (including fees for net addition of claims) are hereby authorized to be charged to Hewlett-Packard Development Company's Deposit Account No. 08-2025.

Respectfully submitted,



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the Queue Manager, consisting of a Send Queue and a Receive Queue. Message requests are initiated by posting Work Queue Entries (WQE) to the Send Queue. The FIO client's message is referenced by a gather-list in the Send WQE. Each entry in the gather-list points to a virtually contiguous buffer in the client's local memory space.

Hardware reads the WQE and packetizes the message into frames and flits. Frames are routed through the network, and for reliable transport services, are acknowledged by the final destination. If not successfully acknowledged, the frame is retransmitted by the source endnode. Frames are generated and consumed by the source and destination endnodes, not by the switches and routers along the way. Flits are the smallest unit of flow control on the network. Flits are generated and consumed at each end of a physical link. Flits are acknowledged at the receiving end of each link and are retransmitted if there is an error.

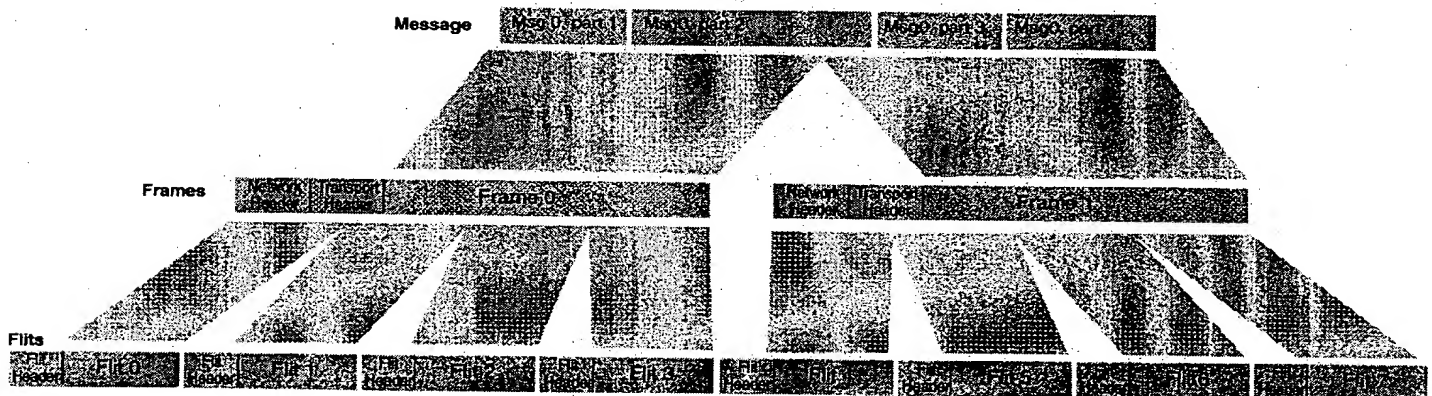


Figure 11 An FIO message partitioned into Frames and Flits

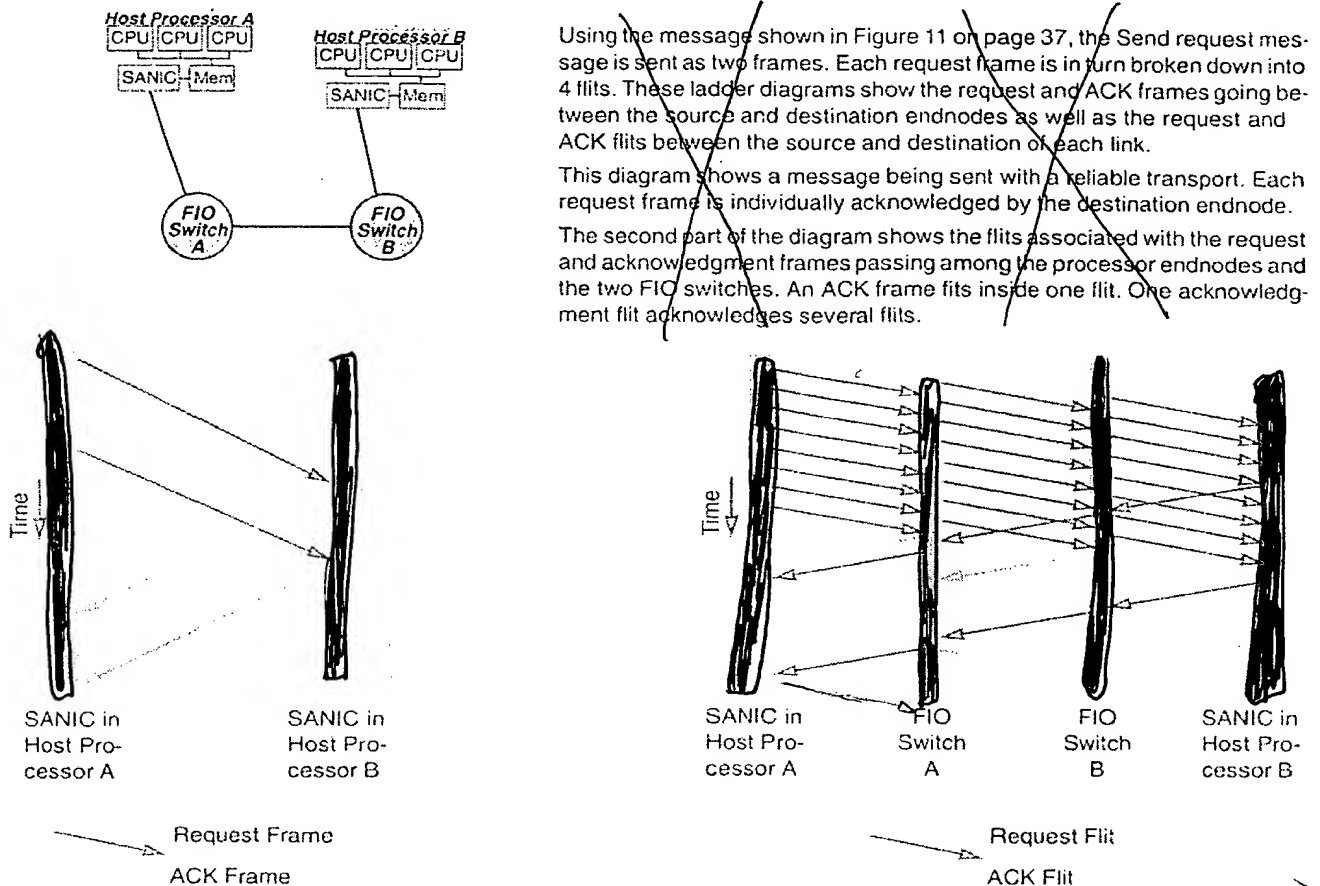
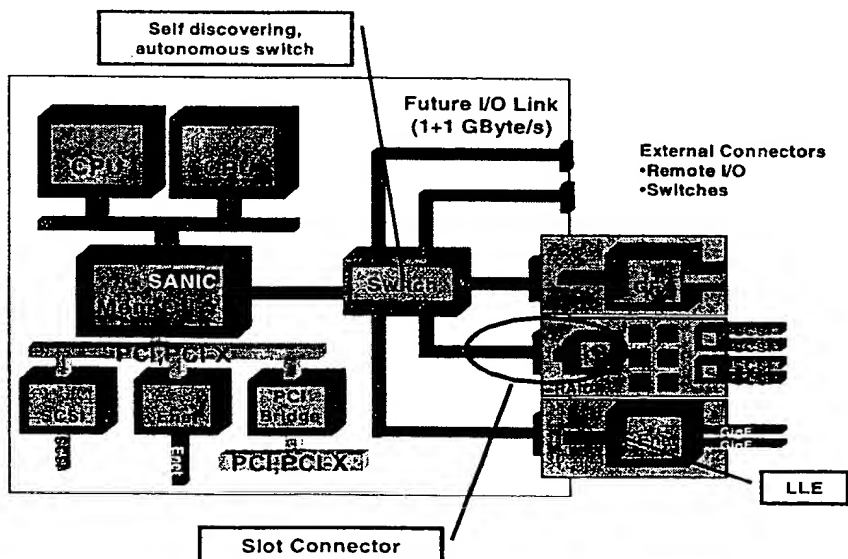


Figure 12 Multiple Request Frames (and Flits) and Their Acknowledgment Frames (and Flits)

Figure 13 Single Board Computer



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Drawings for  
EXAMINER'S  
APPROVAL

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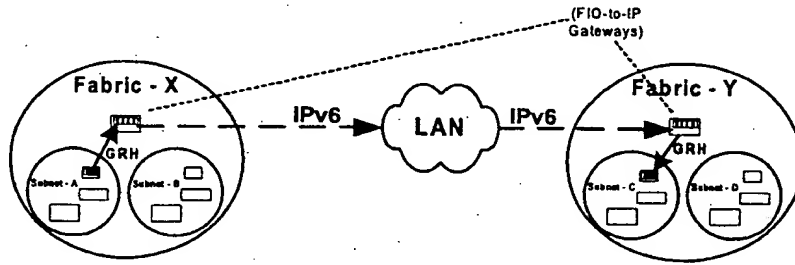


Figure 61- While IPv6 interoperability is a key advantage for FIO, management messages may not route via IP

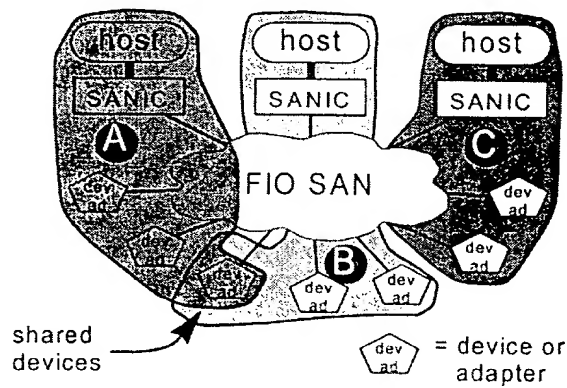


Figure 62 Example Endpoint Partitions of an FIO-Connected Cluster

Figure 65 - Simple Tree with Mixed Bandwidth Links and Adapter and Router Leaves

